

**TO: Suborbital Science Program  
NASA Headquarters  
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## **Flight Report**

<b>Aircraft :</b>	Kenn Borek Air DC-3T Basler
<b>Operating Site(s) From / To :</b>	NZIR/NZIR
<b>Flight Date :</b>	November 26, 2009 (NZDT)
<b>Flight Number / Data Flight # :</b>	F11 / 8
<b>Time out:</b>	<b>0129 UTC</b>
<b>Time in:</b>	<b>0716 UTC</b>
<b>Flight Time :</b>	6.22 hrs
<b>Flt Request # / PI:</b>	NASA 20090602-084128 (Blankenship)
<b>Purpose of Flight :</b>	<b>Data <input checked="" type="checkbox"/> Ferry <input type="checkbox"/> Functional Check <input type="checkbox"/> Other <input type="checkbox"/></b>
<b>Sensor Payload :</b>	University of Texas at Austin HiCARS ice penetrating radar; UT Riegl LD-90 laser distance meter; UT Geometrics 823-A magnetometer; USAF Sigma Space photon counting lidar
<b>Comments :</b>	The aircraft flew its fifth survey flight in its NASA/NERC/NSF ICEBRIDGE/ICECAP configuration from McMurdo's sea ice runway. The laser altimeter (non-scanning), lidar prototype and magnetic fields instruments all performed excellently. The bed and internal layers were imaged by the radar across the entire flight, despite a minor internal noise glitch in the radar. All systems acquired data over the Byrd Glacier lake district, flying along ICESAT tracks 0417 and 0060. Large crevasse fields were observed and imaged at sites of known subglacial lake activity.

**SUBMITTED BY: Duncan Young      28 November 2009**